

Message Text

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INFO OCT-01 ARA-11 ADP-00 SCI-06 L-03 CIAE-00 INR-10

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OSD/ ISA/ FMRA - R. G. LONG

OSD/ GC - MR. SILBER

OSD/ ISA/ IA - COL. ROHR

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FM SECSTATE WASHDC

TO AMEMBASSY BRASILIA

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C O N F I D E N T I A L STATE 103101

USCINCSO FOR POLAD

E. O. 11652: ADS, DECLAS WHEN APPROVAL REQUESTED HEREIN
HAS BEEN GRANTED.

TAGS: OTRA, MARR, TSPA, BR

SUBJECT: PROJECT 4603/ VLF/ LF IONOSOUNDING EXPERIMENT

1. AIR FORCE CAMBRIDGE RESEARCH LABORATORY (AFCRL) DESIRES
TO ASSIST IN A SCIENTIFIC PROJECT WITH BRAZILIAN MILITARY
RESEARCH AGENCY, CENTRO TECNICO AEROSPACIAL, NUCLEO DO
INSTITUTO DE ATIVIDADES ESPACIAIS. CURRENT PROJECT IS
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PROPOSED AS FOLLOW-ON TO A JOINT US/ BRAZILIAN VLF/ HF EXPERIMENT CONDUCTED AT CAICO, BRAZIL, DURING SPRING 1971 (SEE STATE 189897 OF 19 NOV 70). PURPOSE OF EXPERIMENT WILL BE TO EXPLORE EFFECTS ON LOWER IONOSPHERE CAUSED BY PARTICLE DUMPING IN VICINITY OF SOUTH ATLANTIC GEOMAGNETIC FIELD ANOMALY. LATTER IS ESSENTIALLY A WEAK SPOT IN EARTH' S MAGNETIC FIELD AND IS CENTERED NEAR SAO PAULO, BRAZIL. NEW EXPERIMENT IS IN ADDITION TO VARIOUS OTHER ANOMALY OBSERVATIONS ALREADY BEING CONDUCTED BY BRAZIL AND WILL CONSIST OF IONOSOUNDING, USING A VLF/ HF HIGH RESOLUTION PULSE IONOSOUNDER TO BE BUILT BY BRAZIL FOLLOWING AFCRL' S DESIGN. TIME RELATIONSHIP BETWEEN BRAZILIAN IONOSOUNDING DATA AND THE AFCRL ARCTIC DATA WILL BE OF PARTICULAR SIGNIFICANCE.

2. BRAZIL WILL PAY FOR, CONSTRUCT, AND OPERATE THE IONOSOUNDER WHICH WILL REMAIN GOB PROPERTY. AFCRL WILL CONTRIBUTE TECHNICAL EXPERTISE AND SOME MATERIAL ITEMS,

CONSISTING OF A HIGH VOLTAGE CATHODE TUBE (THYRATRON), HIGH VOLTAGE POWER SUPPLY, HIGH VOLTAGE TUNING INDUCTOR, HIGH VOLTAGE CHARGING INDUCTOR, FILAMENT TRANSFORMER, AND A FILTER INDUCTOR WHICH WILL BE INCORPORATED INTO THE IONOSOUNDER.

3. CURRENT EXPERIMENT WILL INVOLVE FOLLOWING AFCRL ACTIVITY, BEGINNING APPROXIMATELY 24 SEPT 1973. DURING FIRST YEAR AFCRL WILL ASSIST BRAZILIAN AIR FORCE IN BUILDING VLF/ HF HIGH RESOLUTION PULSE IONOSOUNDER BY PROVIDING TECHNICAL EXPERTISE AND MATERIAL ITEMS CITED PARA. 2. THIS WILL REQUIRE TWO OR THREE TRIPS OF ONE OR TWO MEN (DOD CIVILIANS) EACH AND SHIPMENT OF MATERIAL (BY MILITARY SEA TRANSPORT SERVICE IF POSSIBLE). ADDITIONALLY, ONE TRAILER VAN AND TWO PORTABLE VLF IONOSOUNDING RECEIVERS, WEIGHING APPROXIMATELY 600 POUNDS, WILL BE SHIPPED TO BRAZIL FOR USE DURING IONOSOUNDER PROGRAM. (TRAILER VAN AND VLF RECEIVERS WILL BE REMOVED BY AFCRL UPON COMPLETION OF PROJECT.) FOLLOWING FABRICATION AND INSTALLATION OF THE SYSTEM, WHICH SHOULD BE COMPLETED BY SEPTEMBER 1974, AFCRL PERSONNEL, BY INTERMITTENT VISITS, WILL PARTICIPATE IN MEASUREMENT PROGRAM TO OBTAIN ANOMALY DATA AS A FUNCTION OF MAGNETIC AZIMUTH, RANGE AND SOLAR ACTIVITY.

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ESTIMATED COMPLETION
DATE OF PROGRAM IS 15 MAY 1975.

4. REQUEST EMBASSY SEEK GOB APPROVAL FOR AFCRL PARTICIPATION AS DESCRIBED. AS WAS DONE IN 1971, EMBASSY SHOULD SEEK GOB AGREEMENT THAT PROJECT EQUIPMENT AND PROJECT PERSONNEL AND THEIR PERSONAL BELONGINGS ENTER BRAZIL UNDER

ARTICLE V OF THE MUTUAL DEFENSE ASSISTANCE AGREEMENT OF
1953 (TIAS 2776), AND THAT PROJECT PERSONNEL BE ACCORDED
IMMUNITIES UNDER ARTICLE VI. WE WOULD APPRECIATE FINAL
GOB APPROVAL BY 24 JULY 73 TO ALLOW FOR THE 60 DAY LEAD
TIME REQUIRED BY THE MILITARY SEA TRANSPORT SERVICE FOR
ARRANGING SHIPPING. ROGERS

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